AMENDMENTS TO THE CLAIMS

Please amend the claims as follows:

1. (Previously Presented) A band rejection filter with attenuation poles

comprising:

a plurality of series resonant circuits with one set of end terminals having a

common connection which is an equipotential node, and another set of end terminals,

each connected through via separate transmission lines each having a length that is an

odd multiple of about a one-quarter wavelength corresponding to a resonance

frequency of the plurality of series resonant circuits; and

a jump-coupling circuit for coupling pairs of non-adjacent series resonant circuits,

belonging to the plurality of series resonant circuits, to each other.

2. (Previously Presented) The band rejection filter with attenuation poles

according to Claim 1, wherein said jump-coupling circuit includes a capacitor, a

transmission line having a length that is an odd multiple of about the one-quarter

wavelength at the resonance frequency of the plurality of series resonant circuits, and

another capacitor, which are connected in series.

3. (Previously presented) The band rejection filter with attenuation poles

according to Claim 2, wherein each of said plurality of transmission lines, said plurality

of series resonant circuits, and said transmission line included in said jump-coupling

circuit is formed of a microstrip line, a slot line, or a coplanar line, which is formed on a

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Amendment dated February 13, 2007

Reply to Office Action of October 13, 2007

dielectric substrate, and each of said capacitor and said other capacitor consists of a

chip capacitor, a gap capacitor formed of a transmission line, or an interdigital capacitor.

The band rejection filter with attenuation poles 4. (Previously Presented)

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according to Claim 1, wherein said jump-coupling circuit includes a high impedance line

having a length that is an odd multiple of about the one-quarter wavelength at the

resonance frequency of the plurality of series resonant circuits, a low impedance line

having substantially the same length as said high impedance line, and another high

impedance line having substantially the same length as said high impedance line, which

are connected in series.

5. (Previously Presented) The band rejection filter with attenuation poles

according to Claim 4, wherein each of said plurality of transmission lines, said plurality

of series resonant circuits, said high impedance line, said low impedance line, and said

other high impedance line is formed of a microstrip line, a slot line, or a coplanar line

which is formed on a dielectric substrate.

6. (Previously Presented) The band rejection filter with attenuation poles

according to Claim 1, wherein said jump-coupling circuit includes a capacitor.

7. (Previously Presented) The band rejection filter with attenuation poles

according to Claim 6, wherein each of said plurality of transmission lines and said

plurality of series resonant circuits is formed of a microstrip line, a slot line, or a 3

coplanar line, which is formed on a dielectric substrate, and said capacitor consists of a

chip capacitor, a gap capacitor formed of a transmission line, or an interdigital capacitor.

8. (Currently Amended) A band rejection filter with attenuation poles comprising:

a plurality of parallel resonant circuits each connected through separateto one of

a pair of transmission lines having a length that is an odd multiple of about a one-

quarter wavelength corresponding to a resonance frequency of the plurality of parallel

resonant circuits; and

a jump-coupling circuit for coupling two non adjacent-parallel resonant circuits,

belonging to the plurality of parallel resonance circuits different transmission lines, to

each other.

9. (Previously Presented) The band rejection filter with attenuation poles

according to Claim 8, wherein said jump-coupling circuit includes a capacitor, aeach of

said pair of transmission lines having a length that is an odd multiple of about the one-

quarter wavelength at the resonance frequency of the plurality of parallel resonant

circuits, and another capacitor, which are connected in series.

10. (Currently Amended) The band rejection filter with attenuation poles

according to Claim 9, wherein each of said pluralitypair of transmission lines and each

of said pair of transmission lines included in said jump-coupling circuit is formed of a

microstrip line, a slot line, or a coplanar line, which is formed on a dielectric substrate,

and each of said capacitor and said other capacitor consists of a chip capacitor, a gap

capacitor formed of aeach of said pair of transmission lines, or an interdigital capacitor.

11. (Currently Amended) The band rejection filter with attenuation poles

according to Claim 9, said pluralitypair of transmission lines consist of a rectangular

waveguide, each of said plurality of parallel resonant circuits consists of a dielectric

resonator that is electromagnetically coupled, via a coupling hole formed in a wider wall

face of said rectangular waveguide, with said rectangular waveguide, each of said pair

of transmission lines included in said jump-coupling circuit consists of a jump-coupling

waveguide disposed in a narrower wall face of said rectangular waveguide, and each of

said capacitor and said other capacitor consists of a coupling hole formed in the

narrower wall face of said rectangular waveguide.

12. (Currently amended) The A band rejection filter with attenuation poles

according to Claim 8, comprising:

a plurality of parallel resonant circuits each connected through separate

transmission lines having a length that is an odd multiple of about a one-quarter

wavelength corresponding to a resonance frequency of the plurality of parallel resonant

circuits; and

a jump-coupling circuit for coupling two non adjacent parallel resonant circuits,

belonging to the plurality of parallel resonance circuits, to each other, wherein said

jump-coupling circuit includes a high impedance line having a length that is an odd

multiple of about the one-quarter wavelength at the resonance frequency of the plurality

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of parallel resonant circuits, a low impedance line having substantially the same length as said high impedance line, and another high impedance line having substantially the same length as said high impedance line, which are connected in series.

- 13. (Previously presented) The band rejection filter with attenuation poles according to Claim 12, wherein each of said plurality of transmission lines, said high impedance line, said low impedance line, and said other high impedance line is formed of a microstrip line, a slot line, or a coplanar line which is formed on a dielectric substrate.
- 14. (Currently Amended) The band rejection filter with attenuation poles according to Claim 12, wherein said plurality of transmission lines consist of a rectangular waveguide, each of said plurality of parallel resonant circuits consists of a dielectric resonator that is electromagnetically coupled, via a coupling hole formed in a wider wall face of said rectangular waveguide, with said rectangular waveguide, each of said high impedance line and said other high impedance line consists of a narrower and thicker jump-coupling waveguide disposed in a narrower wall face of said rectangular waveguide, and said low impedance line consists of a wider and thinner jump-coupling waveguide disposed in the narrower wall face of said rectangular waveguide.
- 15. (Previously Presented) The band rejection filter with attenuation poles according to Claim 8, wherein said jump-coupling circuit includes a capacitor.

16. (Currently Amended) The band rejection filter with attenuation poles according to Claim 15, wherein each of said pluralitypair of transmission lines is formed of a microstrip line, a slot line, or a coplanar line, which is formed on a dielectric substrate, and said capacitor consist of a chip capacitor, a gap capacitor formed of a transmission line, or an interdigital capacitor.